

TABLE I
 Establishment of ES Cell Lines from One Outbred (Swiss Webster)
 and Nine Inbred Mouse Strains

Strain	No. of blastocysts cultured	No. of established ES cell lines*	Efficiency in % (No. ES cell lines /No. blastocyst cultured)
129/Sv Ev	18	11	61
C57BL/6N	30	12	40
C57BL/6J-HPRT	25	8	32
Balb/c	37	2	5
CBA/CaOla	12	8	66
129/SvJ	12	7	58
DBA/2N	16	6	37
DBA/1Ola	36	4	11
FVB/N	18	4	22
Swiss Webster	85	6	7

*All ES cell lines have sustained 10 or more passages.

TABLE II
 Establishment of ES Cell Lines from Six Genetically Manipulated
 (Knock Out) Mouse Strains

Strain	No. of blastocysts cultured	No. of established ES cell lines	Efficiency in % (No. ES cell lines /No. blastocyst cultured)
Cenos <i>-/-</i> x Cenos <i>-/-</i> in 129Sv x C57BL/6	12	6	50
Survivin ^{+/−} x Survivin ^{+/−} in 129SvJ x 129SvPas	100	44	44
HIF1 α ^{+/−} x HIF1 α ^{+/−} in Swiss Webster x (129SvJ x 129SvPas)	57	20	35
ApoE ^{−/−} x ApoE ^{−/−} in 100% C57BL/6	18	2	11
TF ^{+/−} x TF ^{+/−} 87.5% C57BL/6 x (12.5% 129Sv JX 129SvPas)	45	26	58

TABLE III

Production of Chimaeric Mice with Germ Line Transmission Capability
After Blastocyst Injection with Established ES Cells

Strain & ES cell line No.	Passage No.	Blastocysts injected	Animals born	Chimaeras
C57Bl/6J-HPRT<B-M3> (#2)	12	60	40	23
DBA/2 #8	15	60	17	4
Swiss Webster #43	12	36	9	5
	13	37	8	3
	14	47	3	1
	15	33	9	2
Swiss Webster #44	14	15	7	4
129/SvJ #3	10	20	4	2
	14	33	11	8
129/SvJ #4	11	33	6	2
	15	32	3	1
129/SvJ #7	16	30	7	6
Balb/c ANTacfBr #17	17	36	16	11
FVB #17	10	50	18	3
	16	34	12	5
DBA/1 Ola #36	11	36	10	0
	21	43	14	9

TABLE IV

Production of Chimaeric Mice with Germ Line Transmission Capability
After Diploid Aggregation with Established ES Cells

Strain & ES cell line No.	Passage No.	No. embryos reimplanted	Animals born	Chimaeras (% chimaerism)
C57BL/6 #25	13	99	47	19 Males (100%)
C57BL/6 #28	13	89	40	8 Males (100%)
C57Bl/6J-HPRT #2	13	65	26	5 Males (100%)
	14	114	28	6 Males (100%)
129SvEV #4	12	59	24	3 Males (100%) 1 Female (100%)
	13	32	12	3 Males (100%) 1 Male (60%) 1 Female (10%)
129Sv Ev #11	12	98	16	8 Males (100%)
129SvEv #17	12 + 13	82	10	5 Males (100%)
CBA #4	12	80	23	4 Males (100%) 2 Males (50%) 1 Female (50%) 1 Female (40%)

TABLE V

Production of Completely ES derived Cell Mice with Germ Line Transmission Capability After Tetraploid Aggregation with Established ES Cells

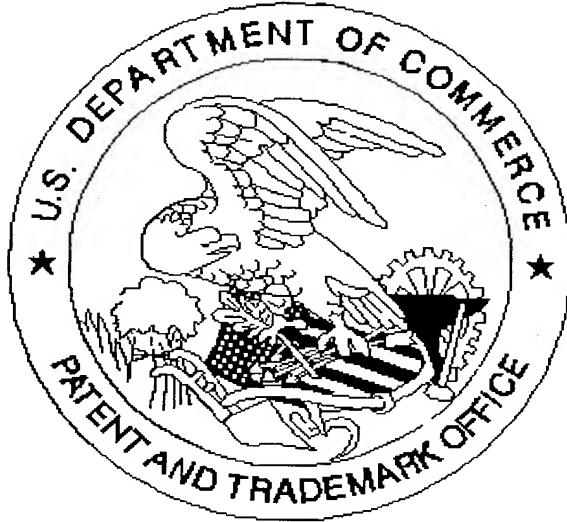
Strain & ES cell line No.	Passage No.	No. of embryos reimplanted	Animals born*
C57BL/6 #25	12	56	7
129SvEV #4	13	10	1
129SvEV #7	12	53	11
	16	66	10
	17	23	7
129SvEv #11	12	132	7
129SvEv #17	12	139	5
CBA #4	11	67	1
87.5% C57BL/6 x (12.5% 129SvJ x 129SvPas) TF #9+/-	10	14	2

*All animals born were 100% chimaeric males.

TABLE VI
Establishment of Germ Line Transmission in Rabbits

	MALE OFFSPRING		FEMALE OFFSPRING	
	BORN	GERMLINE TRANSMISSION	BORN	CHIMERA
NZBB68	3	neg	6	2
NZB7	2	neg	3	1
	1	(1 of 7 pups, pos by PCR)	4	4

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PAGES 18 & 19 ARE SEQUENCE LISTING
PAGES 20-23 ARE THE CLAIMS.
PAGE 24 IS THE ABSTRACT
PAGES 25 TO 30 ARE TABLES I-VI